WEST Search History

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DATE: Monday, September 06, 2004

Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ		
☐	L4	HBH-V$	0
☐	L3	cpc-nV-Vm	0
☐	L2	L1	0
	DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ		
☐	L1	cpc-v-v	0

END OF SEARCH HISTORY

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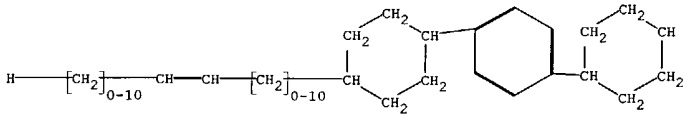

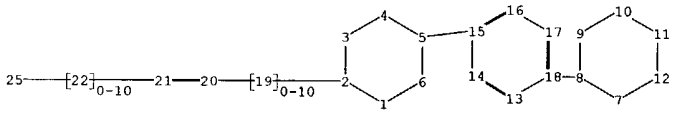

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19 20 21 22 25
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
chain bonds :
2-19 5-15 8-18 19-20 20-21 21-22 22-25
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14
13-18 14-15 15-16 16-17 17-18
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact bonds :
2-19 5-15 8-18 19-20 20-21 21-22 22-25
normalized bonds :
13-14 13-18 14-15 15-16 16-17 17-18

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom
18:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS 25:CLASS

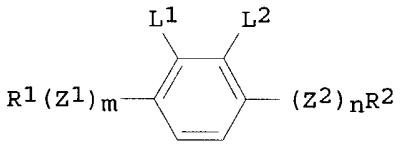
AN 1995:546748 CAPLUS
DN 123:270892
ED Entered STN: 13 May 1995
TI Fluorobenzene derivative and liquid-crystal medium
IN Reiffenrath, Volker; Bremer, Matthias; Rieger, Bernhard; Junge, Michael; Tarumi, Kazuaki
PA Merck Patent G.m.b.H., Germany
SO Ger. Offen., 46 pp
CODEN: GWXXBX
DT Patent
LA German
IC ICM C07C043-225
ICS C07C043-215; C07C043-21; C07C043-205; C07C025-24; C07C025-18; C09K019-30; G02F001-13; G09F009-35
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 25, 75
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4426799	A1	19950209	DE 1994-4426799	19940728
	JP 07053432	A2	19950228	JP 1994-182640	19940803
PRAI	DE 1993-4325986		19930803		
	DE 1993-4327737		19930818		
	DE 1994-4409913		19940323		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 4426799	ICM	C07C043-225
	ICS	C07C043-215; C07C043-21; C07C043-205; C07C025-24; C07C025-18; C09K019-30; G02F001-13; G09F009-35

OS MARPAT 123:270892
GI



I

AB The fluorobenzene derivative has the formula I [R1 = H, alkyl or alkenyl optionally substituted with CN, CF3 or a halogen where ≥1 CH2 groups are replaced by O, S, 1,3-cyclobutylene, CO, CO2, O2C, OCO2; R2 = alkoxy or under certain conditions alkyl; Z1, Z2 = trans-1,4-cyclohexylene, 2,3,6-trihydro-p-phenylene, 2-L3,3-L4-p-phenylene, 3,5-difluoro-p-phenylene; m, n = 0-2; m + n ≥1]. Nine other variations of the above Markush structures are also claimed. The compds. can be used as dielec. material in electrooptical devices.
ST fluorobenzene deriv liq crystal medium; electrooptical device dielec material fluorobenzene
IT Electric insulators and Dielectrics
(fluorobenzene derivs. for liquid crystal medium)
IT Optical imaging devices
(electrooptical liquid-crystal, fluorobenzene derivs. as dielec. material)
IT 58743-75-2 58743-76-3 61203-99-4 61204-01-1 63221-88-5
80944-44-1 84540-37-4 86776-50-3 86776-51-4 86776-52-5
116020-36-1 116903-46-9 116903-47-0 116903-48-1 116903-49-2

121553-94-4 163004-89-5 163004-90-8 163005-00-3 163005-04-7
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(component for liquid crystal composition)

IT 76802-59-0 76802-61-4 81711-13-9 84816-56-8 85312-59-0
102714-93-2 106349-49-9 121219-85-0 133914-49-5 133914-50-8
133937-72-1 134412-17-2 135734-59-7 135734-60-0 163005-09-2
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(dielec. material for liquid crystal medium)

IT 145767-56-2P **163004-85-1P** 163004-89-5P 163004-90-8P
163004-93-1P 163004-94-2P 163004-95-3P 163004-96-4P 163004-97-5P
163004-98-6P 163004-99-7P 163005-00-3P 163005-01-4P 163005-02-5P
163005-03-6P 163005-04-7P 163005-05-8P 163005-06-9P 163005-07-0P
163005-08-1P
RL: DEV (Device component use); MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(dielec. material for liquid crystal medium)

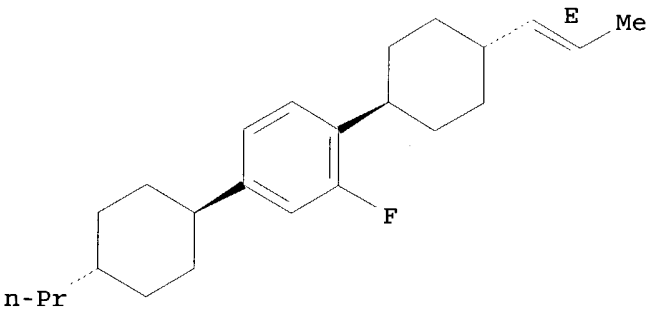
IT 163004-78-2P 163004-79-3P 163004-80-6P 163004-81-7P 163004-82-8P
163004-83-9P 163004-84-0P 163004-86-2P 163004-87-3P 163004-88-4P
163004-91-9P 163004-92-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(dielec. material for liquid crystal medium)

IT 163060-89-7 163250-92-8
RL: DEV (Device component use); USES (Uses)
(liquid-crystal composition)

IT **163004-85-1P**
RL: DEV (Device component use); MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(dielec. material for liquid crystal medium)

RN 163004-85-1 CAPLUS
CN Benzene, 2-fluoro-1-[4-(1-propenyl)cyclohexyl]-4-(4-propylcyclohexyl)-, [1α(trans),4β(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



AN 1997:640630 CAPLUS
DN 127:339303
ED Entered STN: 09 Oct 1997
TI Bialkenyl derivatives, liquid crystalline compounds and liquid crystal compositions
IN Kato, Takashi; Matsui, Shuichi; Miyazawa, Kazutoshi; Sekiguchi, Yasuko; Nakagawa, Etsuo
PA Chisso Corp., Japan
SO PCT Int. Appl., 116 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07C022-00
ICS C09K019-30; C09K019-40; C07C025-24; C07C069-76; C07C043-192; C07F007-08
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 75
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9734855	A1	19970925	WO 1997-JP700	19970306
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	JP 10045639	A2	19980217	JP 1997-24331	19970123
	AU 9722324	A1	19971010	AU 1997-22324	19970306
	EP 891314	A1	19990120	EP 1997-905457	19970306
	EP 891314	B1	20010905		
	R: DE, FR, GB				
	CN 1214036	A	19990414	CN 1997-193138	19970306
	CN 1110470	B	20030604		
	US 6180027	B1	20010130	US 1998-101990	19980722
PRAI	JP 1996-90585	A	19960318		
	WO 1997-JP700	W	19970306		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9734855	ICM	C07C022-00
	ICS	C09K019-30; C09K019-40; C07C025-24; C07C069-76; C07C043-192; C07F007-08
US 6180027	ECLA	C07C017/26B; C07C022/00; C07C022/08; C07C025/18; C07C043/192; C07C045/44; C07C045/44; C07C045/51B4; C07C047/225; C07C047/26B; C07C047/45; C07C047/453; C07C047/543; C07F007/08C6B; C07F007/08H; C09K019/04; C09K019/30A

OS MARPAT 127:339303
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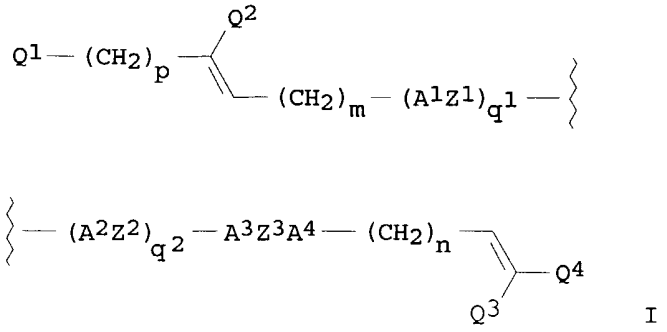

I

AB Liquid crystalline compds. expressed by formula I (A1-4 = trans-1,4-cyclohexylene, etc.; Z1-3 = (CH2)2, etc.; Q1-2 = H, F, Cl, Br; Q3-4 = F, Cl, Br; m,n,p = integer 0-5; q1-q2 = integer 0-1), liquid crystal compns. thereof obtained by combination with specified liquid crystal compds., and liquid crystal display devices using them are disclosed. The compns. provide a wide liquid crystal phase temperature range.

ST bialkenyl liq crystal compn display

IT Liquid crystal displays
(liquid crystal compns. containing bialkenyl derivs. for)

IT 7465-91-0 22692-80-4 38444-13-2 40817-08-1 41122-71-8 52709-83-8
52709-86-1 54211-46-0 56131-48-7 56131-49-8 57202-25-2
57202-28-5 58743-75-2 58743-76-3 61203-99-4 61204-01-1
61204-03-3 63221-88-5 63617-61-8 64835-59-2 67131-97-9
67589-39-3 67589-41-7 67589-47-3 67589-52-0 67589-53-1
67589-54-2 67589-69-9 68065-81-6 70602-95-8 72928-54-2
74240-64-5 74240-65-6 76802-59-0 76802-61-4 79912-83-7
79912-85-9 80944-44-1 81701-13-5 81711-13-9 81782-74-3
81793-57-9 82356-54-5 82406-83-5 82832-27-7 82832-32-4
82832-57-3 84360-96-3 84361-05-7 84655-98-1 84656-75-7
84656-77-9 84656-92-8 85312-59-0 85583-83-1 86503-56-2
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87073-93-6 87073-94-7 87260-24-0 88416-69-7 88416-84-6
88580-93-2 88639-41-2 88878-50-6 89139-36-6 89356-02-5
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107949-21-3 112026-68-3 116090-24-5 116090-26-7 116090-30-3
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136922-42-4 137019-95-5 137529-56-7 137547-79-6 137644-54-3
137784-79-3 139136-72-4 139215-89-7 139420-31-8 140221-27-8
144583-01-7 145131-04-0 145918-41-8 146781-29-5 146781-31-9
148462-51-5 148462-52-6 148809-22-7 148809-23-8 153429-48-2
155041-85-3 156326-16-8 161142-00-3 174303-22-1 174303-26-5
175859-23-1 175859-24-2 175859-25-3 175859-28-6 175859-31-1
178689-87-7 182350-41-0 182350-45-4 183145-19-9 184161-94-2
186320-72-9 196870-32-3 197012-69-4 197804-30-1 197804-31-2
197804-32-3 197804-33-4 197804-34-5 197804-37-8 197804-51-6
197804-52-7 197804-53-8 197804-67-4 197804-70-9 197804-75-4
197804-76-5 197804-77-6 197804-78-7 197805-90-6 197805-91-7
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)

(electrooptical display devices using liquid crystal compns. containing)

IT 79945-42-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(electrooptical display devices using liquid crystal compns. containing)

IT 197804-71-0 197804-72-1 197804-74-3
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(liquid crystal composition for electrooptical display devices)

IT 140922-73-2P 189361-87-3P, Methyl trans-4-(trans-4-(3-butenyl)cyclohexyl)cyclohexane carboxylate 189361-88-4P, trans-4-(trans-4-(3-Butenyl)cyclohexyl)cyclohexane carbaldehyde 197804-17-4P 197804-18-5P 197804-21-0P, Methyl trans-4-(trans-4-(4-(3-butenyl)phenyl)cyclohexyl)cyclohexane carboxylate 197804-22-1P, trans-4-(trans-4-(4-(3-Butenyl)phenyl)cyclohexyl)cyclohexane carbaldehyde **197804-25-4P**, Methyl trans-4-(4-(4-(trans-4-(3-butenyl)cyclohexyl)phenyl)phenyl)cyclohexane carboxylate 197804-27-6P 197804-28-7P 197804-29-8P, trans-4-(trans-4-(3-Butenyl)cyclohexyl)cyclohexyl propanal
RL: DEV (Device component use); RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and reaction in preparation of bialkenyl derivative liquid crystals for
display devices)

IT 197804-19-6P, 1-(2,2-Difluoroethenyl)-trans-4-(trans-4-(4-(3-butenyl)phenyl)cyclohexyl)cyclohexane
RL: DEV (Device component use); RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and use in liquid crystal compns. for electrooptical display devices)

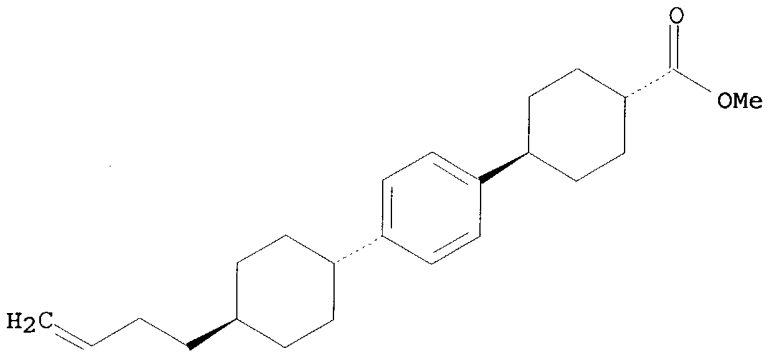
IT 197804-14-1P, 1-(2,2-Difluoroethenyl)-trans-4-(trans-4-(3-butenyl)cyclohexyl)cyclohexane 197804-15-2P 197804-23-2P 197804-26-5P, 1-(4,4-Difluoro-3-butenyl)-trans-4-(trans-4-(3-butenyl)cyclohexyl)cyclohexane
RL: DEV (Device component use); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation and use in liquid crystal compns. for electrooptical display devices)

IT 1779-49-3, Methyl triphenylphosphonium bromide 1895-39-2, Sodium chlorodifluoroacetate 4009-98-7, Methoxymethyltriphenyl phosphonium chloride 187526-09-6, Methyl trans-4-(trans-4-(2-formylethyl)cyclohexyl)cyclohexane carboxylate 197804-16-3 197804-20-9 197804-24-3, Methyl trans-4-(4-(4-(trans-(2-formylethyl)cyclohexyl)phenyl)phenyl)cyclohexane carboxylate
RL: DEV (Device component use); RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
(reaction in preparation of bialkenyl derivative liquid crystals for display devices)

IT **197804-25-4P**, Methyl trans-4-(4-(4-(trans-4-(3-butenyl)cyclohexyl)phenyl)phenyl)cyclohexane carboxylate
RL: DEV (Device component use); RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and reaction in preparation of bialkenyl derivative liquid crystals for
display devices)

RN 197804-25-4 CAPLUS
CN Cyclohexanecarboxylic acid, 4-[4-[4-(3-butenyl)cyclohexyl]phenyl]-, methyl ester, [trans(trans)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.


O
OMe
H2C

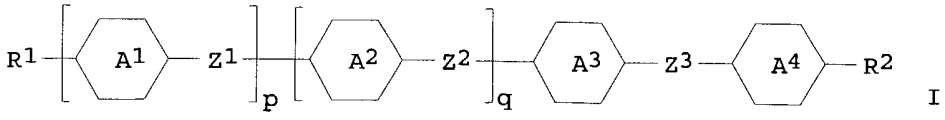
AN 1998:208506 CAPLUS
DN 128:302170
ED Entered STN: 13 Apr 1998
TI Compounds having alkadienyl side chain, with a large elastic constant ratio, steep electro-optic characteristics and a little temperature dependence in a low temperature range, and liquid crystal composition using same
IN Kato, Takashi; Miyazawa, Kazutoshi; Matsui, Shuichi; Takeuchi, Hiroyuki; Takeshita, Fusayuki; Hisatsune, Yasusuke; et al.
PA Chisso Corp., Japan
SO PCT Int. Appl., 101 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07C013-28
ICS C07C015-50; C07C022-00; C07C023-18; C07C025-24; C07D213-02; C07D239-24; C07D319-06; C09K019-30; C09K019-34; C09K019-42; G02F001-13; G09F009-35
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 24
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9813321	A1	19980402	WO 1997-JP3347	19970922
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9742224	A1	19980417	AU 1997-42224	19970922
	EP 925268	A1	19990630	EP 1997-940441	19970922
	R: DE				
	JP 2001500894	T2	20010123	JP 1998-515484	19970922
	US 6174457	B1	20010116	US 1999-242333	19990211
PRAI	JP 1996-277596	A	19960927		
	WO 1997-JP3347	W	19970922		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9813321	ICM	C07C013-28
	ICS	C07C015-50; C07C022-00; C07C023-18; C07C025-24; C07D213-02; C07D239-24; C07D319-06; C09K019-30; C09K019-34; C09K019-42; G02F001-13; G09F009-35

OS MARPAT 128:302170
GI



I

AB The title compds. useful for liquid crystal display devices are of the general formula I, wherein R1 = C4-10 (fluoro)alkadienyl; R2 = C1-10 (fluoro)alkenyl; one or more non-adjacent methylene groups (-CH2-) in the alkadienyl group or the alkenyl group may be replaced by -O- or the like; A1-4 = (halo)-1,4-cyclohexylene, 1,4-phenylene; Z1-3 = -CH2CH2-, -CF=CF-; p, q = 0, 1. 4'-(1,5-Hexadienyl)-4-(3-butenyl)bicyclohexane was prepared starting from Me 4-oxobicyclohexane-4'-carboxylate.

ST liq crystal display alkadienyl compd; alkadienyl bicyclohexane liq crystal display

IT Liquid crystal displays
Liquid crystals
(compds. having alkadienyl side chain, with a large elastic constant ratio, steep electro-optic characteristics and a little temperature dependence in a low temperature range, and liquid crystal composition using same)

IT 187525-92-4P 187526-09-6P 189361-87-3P 189361-88-4P 205864-68-2P
205864-69-3P 205864-70-6P 205864-71-7P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(compds. having alkadienyl side chain, with a large elastic constant ratio, steep electro-optic characteristics and a little temperature dependence in a low temperature range, and liquid crystal composition using same)

IT 205864-72-8P 205864-73-9P 205864-74-0P 205864-75-1P 205864-77-3P
205864-78-4P 205864-79-5P 205864-80-8P 205864-81-9P 205864-82-0P
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205996-94-7P 205996-95-8P 205996-96-9P 205996-97-0P 205997-00-8P
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205997-14-4P 205997-17-7P 205997-19-9P **205997-22-4P**
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205997-32-6P 205997-34-8P 205997-37-1P 205997-39-3P 205997-40-6P
205997-42-8P 205997-44-0P 205997-46-2P 205997-49-5P 205997-51-9P
205997-53-1P 205997-55-3P 205997-57-5P 205997-59-7P 205997-61-1P
205997-63-3P 205997-65-5P 205997-66-6P 205997-68-8P 205997-71-3P
205997-73-5P 205997-75-7P 205997-77-9P 205997-79-1P 205997-81-5P
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205997-93-9P 205997-95-1P 205997-97-3P 205997-98-4P 205997-99-5P
205998-01-2P 205998-03-4P 205998-05-6P 205998-07-8P 205998-09-0P
205998-10-3P 205998-11-4P 205998-13-6P 205998-15-8P 205998-16-9P
205998-17-0P 205998-18-1P 205998-19-2P 205998-20-5P 205998-21-6P
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205998-28-3P 205998-29-4P 205998-31-8P 205998-32-9P 205998-33-0P
205998-34-1P 205998-35-2P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(compds. having alkadienyl side chain, with a large elastic constant ratio, steep electro-optic characteristics and a little temperature dependence in a low temperature range, and liquid crystal composition using same)

IT 56771-29-0 155366-57-7 183244-97-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(compds. having alkadienyl side chain, with a large elastic constant ratio, steep electro-optic characteristics and a little temperature dependence in a low temperature range, and liquid crystal composition using same)

IT 61203-99-4 61204-01-1 62788-07-2 68065-81-6
RL: TEM (Technical or engineered material use); USES (Uses)
(compds. having alkadienyl side chain, with a large elastic constant ratio, steep electro-optic characteristics and a little temperature dependence in a low temperature range, and liquid crystal composition using same)

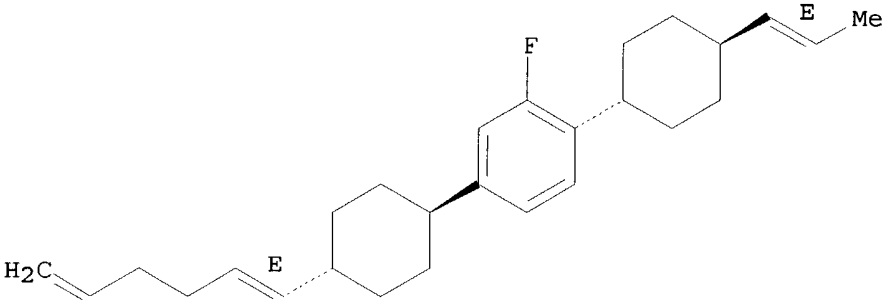
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

(1) Chisso Corporation; WO 9622261 A1 1996 CAPLUS
(2) Chisso Corporation; WO 9713821 A1 1997 CAPLUS
(3) F Hoffmann-La Roche Ag; EP 0501268 A2 1992 CAPLUS

IT **205997-22-4P 205997-24-6P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(compds. having alkadienyl side chain, with a large elastic constant ratio, steep electro-optic characteristics and a little temperature dependence in a low temperature range, and liquid crystal composition using same)

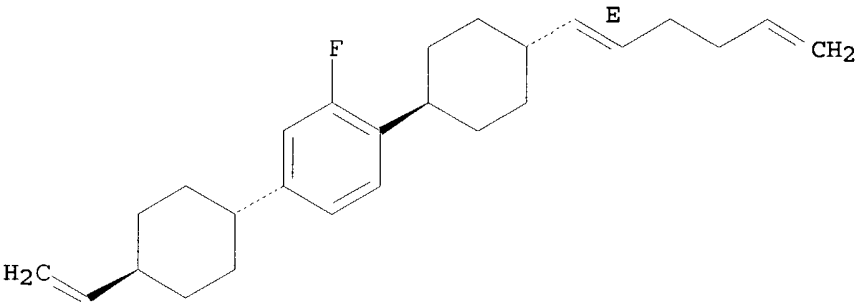
RN 205997-22-4 CAPLUS
CN Benzene, 2-fluoro-4-[trans-4-(1E)-1,5-hexadienylcyclohexyl]-1-[trans-4-(1E)-1-propenylcyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 205997-24-6 CAPLUS
CN Benzene, 4-(trans-4-ethenylcyclohexyl)-2-fluoro-1-[trans-4-(1E)-1,5-hexadienylcyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



AN 2000:494695 CAPLUS
DN 133:201061
ED Entered STN: 23 Jul 2000
TI LC diketones: synthesis, transformations and mesomorphic properties
AU Bezborodov, V. S.; Sasnouski, G. M.; Lapanik, V. I.
CS Institute of Applied Physics Problems, Minsk, 220064, Belarus
SO Liquid Crystals (2000), 27(7), 935-941
CODEN: LICRE6; ISSN: 0267-8292
PB Taylor & Francis Ltd.
DT Journal
LA English
CC 75-11 (Crystallography and Liquid Crystals)
Section cross-reference(s): 25, 28
AB The synthesis and chemical transformations of various diketones into liquid crystalline compds. are discussed. The diketones were prepared by the interaction of cyclohexene with acid chlorides and benzene in the presence of Al chloride (Nenitzescu method) or by Friedel Crafts reaction of trans-4-alkanoyl-1-phenylcyclohexanes or trans-2-alkyl-5-phenylcyclohexanones with acid chlorides, or by the condensation of corresponding Mannich salts with 2-substituted acetoacetates or acetylacetone.
ST diketone liq crystal synthesis transformation mesomorphic property
IT Cyclization
(Nenitzescu; in liquid crystal diketones: synthesis, transformations and mesomorphic properties)
IT Ketones, properties
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(diketones; liquid crystal diketones: synthesis, transformations and mesomorphic properties)
IT Friedel-Crafts reaction
Mannich reaction
(in liquid crystal diketones: synthesis, transformations and mesomorphic properties)
IT Liquid crystals
(liquid crystal diketones: synthesis, transformations and mesomorphic properties)
IT Liquid crystals
(transitions; liquid crystal diketones: synthesis, transformations and mesomorphic properties)
IT 289058-98-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydrohalogenation of)
IT 148065-17-2P 172299-26-2P 172299-28-4P 200133-55-7P 200133-56-8P
200133-57-9P 200133-58-0P 200260-06-6P 205763-24-2P 205763-25-3P
205763-26-4P 205763-27-5P 205763-28-6P 205763-29-7P 205763-30-0P
205763-31-1P 205763-32-2P 205763-33-3P 205763-34-4P 289058-73-7P
289058-74-8P 289058-75-9P 289058-76-0P 289058-85-1P 289058-95-3P
289058-96-4P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(preparation and liquid crystal properties and reactions of)
IT 79832-85-2P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(preparation and liquid crystal properties and reduction of)
IT 207852-13-9P 207852-14-0P 207852-15-1P 289058-89-5P 289058-90-8P
289058-91-9P **289058-99-7P**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(preparation and liquid crystal properties of)
IT 289059-00-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with hexyloxyaniline)
IT 75669-07-7P 148065-16-1P 205763-23-1P 207852-08-2P 207852-09-3P 289058-72-6P 289058-79-3P 289058-80-6P 289058-81-7P 289058-82-8P 289058-83-9P 289058-84-0P 289058-86-2P 289058-87-3P 289058-88-4P 289058-92-0P 289058-93-1P 289058-94-2P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and thermal behavior and reactions of)
IT 289058-97-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and transformation to chloride)
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Bezborodov, V; Conference Summaries, 7th International Conference on Ferroelectric Liquid Crystals 1999, P220
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(3) Bezborodov, V; Liq Cryst 1997, V23, P69 CAPLUS
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(6) Bezborodov, V; Mol Cryst liq Cryst 1997, V303, P297 CAPLUS
(7) Brettle, R; J mater Chem 1996, V6, P747 CAPLUS
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(13) Sasnovski, G; Mol Cryst liq Cryst 1997, V303, P313 CAPLUS
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IT **289058-99-7P**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(preparation and liquid crystal properties of)
RN 289058-99-7 CAPLUS
CN Benzene, 1,4-bis[trans-4-(1E)-1-propenylcyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.